

Title (en)  
FLOW CONTROL OF AN INJECTION MOLDING SYSTEM

Title (de)  
FLUSSSTEUERUNG EINER SPRITZGIESSMASCHINE

Title (fr)  
RÉGULATION DE FLUX D'UN SYSTÈME DE MOULAGE PAR INJECTION

Publication  
**EP 3753703 B1 20220511 (EN)**

Application  
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Priority  
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Abstract (en)  
[origin: EP3753703A1] Injection molding system comprising at least one first actuator-system (D1,D2,D3), the first actuator system comprising :- a least one piston drive (10) having at least two pressure line connectors (CP2, CP3) to drive a piston to open or close a molding nozzle,- pressure lines (L1, L2) connectable to a change over valve (V) having a pressure line connector (P) and tank line connector (T) and at least two change over pressure line connectors, wherein the first change over valve pressure line connector (CV1) is connectable to a first pressure line (L1) and the second change over valve pressure line connector (CV2) is connectable to a second pressure line (L2), wherein the second pressure line (L2) is connected to the second pressure line connector (CP2) of the piston drive (10),- an electronically adjustable flow control valve (20) having a first pressure line connector and a second pressure line connector, wherein the first pressure line connector of the adjustable flow control valve being connected to the first pressure line (L1) to allowing a connection to the first pressure line connector (CV1) of the change over valve (V), and the second pressure line connector is connected to a third pressure line (L3) which establishes a connection to the second pressure line connector (CP3) of the piston drive (10),- at least one electronic flow sensor for (P1, P2, P3) sensing flow rate in the first, second and/or third pressure lines (L1, L2, L3),- a controller connected to the adjustable flow control valve and to the at least one sensor, configured to electronically adjust the flow control valve, depending on information of the at least one sensor, controlling thereby the timing and the speed of the movement of the piston and the molding nozzle.

IPC 8 full level  
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